

**BATTERY SELF-WARMING MECHANISM USING THE
INVERTER AND THE BATTERY MAIN DISCONNECT CIRCUITRY**

ABSTRACT OF THE DISCLOSURE

An apparatus connected to an energy storage device for powering an electric motor and optionally providing a warming function for the energy storage device is disclosed. The apparatus includes a circuit connected to the electric motor and the energy storage device for generating a current. The apparatus also includes a
5 switching device operably associated with the circuit for selectively directing the current to one of the electric motor and the energy storage device.